

NOVEL SMALL NUCLEAR RNA VECTORS AND USES THEREFOR

ABSTRACT OF THE DISCLOSURE

The present invention relates to the discovery of a recombinant vector into which preselected DNA modifications can be readily inserted. Digestion of the vector with a dual cleavage restriction enzyme forms insertion sites which allow the directed placement of an insertion cassette comprised of a double stranded modification fragment containing a preselected sequence modification linked to a pair of single-stranded overhangs with DNA sequences complementary to the DNA sequences of the insertion sites formed in the isolated DNA of the vector. Methods of producing recombinant vectors, and methods of utilizing the vectors to create cell libraries, to identify snRNAs which suppress expression of transcription products, to suppress expression of transcription products and to deliver antisense targeting sequences are also within the scope of the invention.

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